ABSTRACT OF THE DISCLOSURE

A system and a method for matching multi-attribute auction bids are disclosed.
A set of multi-attribute bids or bid values are collected from one or more buyers
and one or more sellers. The set of bid values may include variances from

5   nominal bid values. Buyer and seller bids are generated from the set of buyer
and seller multi-attribute bid values after predetermined attribute values, if any,
are added. A pair of bids between each buyer and each seller having a highest
surplus is selected. The method generates a weighted bipartite graph
[comprising] having buyer nodes and seller nodes and an edge between each

10 buyer node and each seller node, each edge having the highest surplus of the
pair of bids between the buyer and seller as a weight. The maximal weighted
matching bids from the highest surplus pairs of bids are determined using the
weighted bipartite graph.